ILLEGIB

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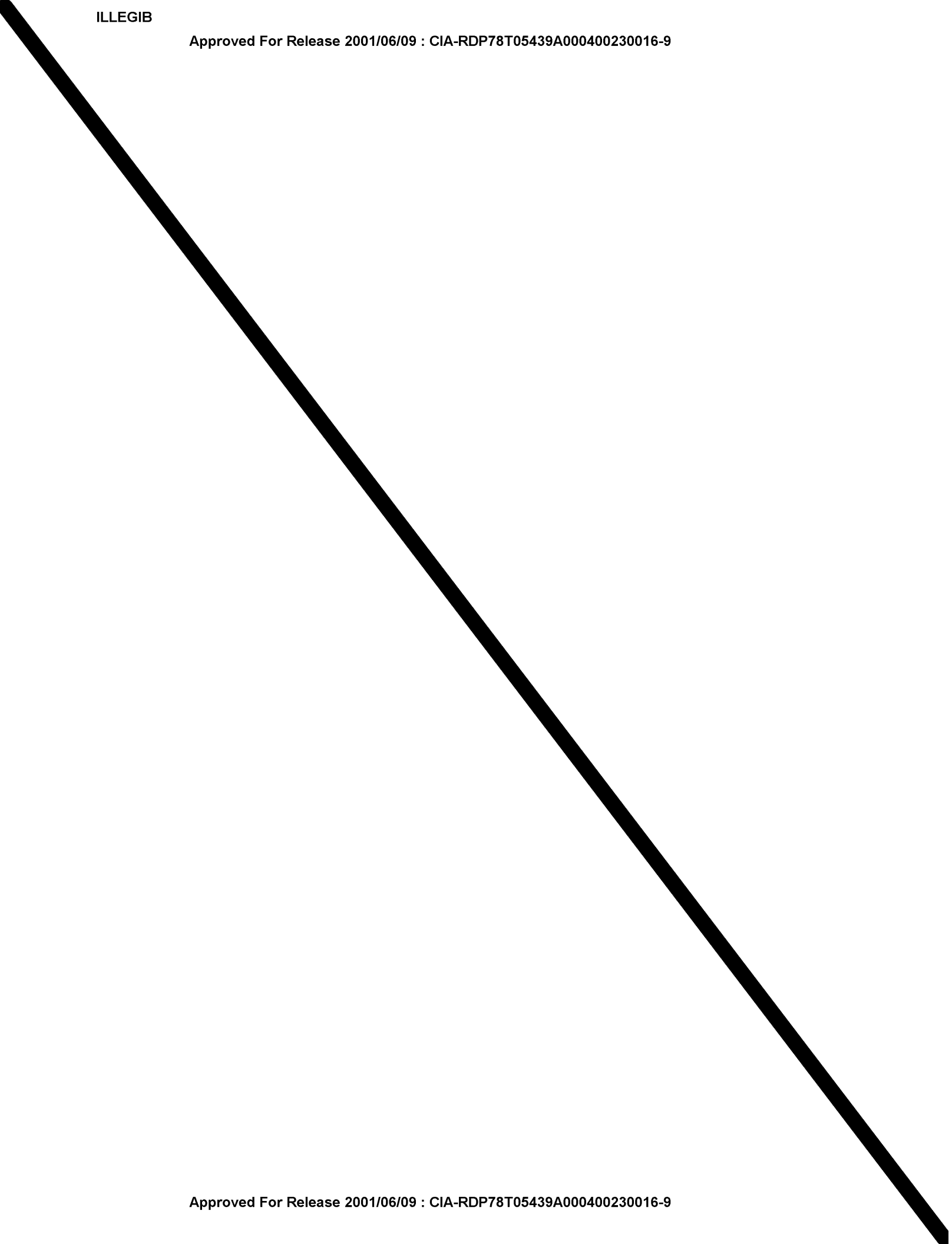

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TOP SECRET RUFF

HANDLE VIA
TALENT-KEYHOLE
CONTROL SYSTEM ONLY

TCS No. 9204/64
IB No. 410/64
6 November 1964
Copy No. 1

MEMORANDUM FOR: Chief, Manufacturing and Service Division, ORR

ATTENTION : [redacted] 25X1A

THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS

FROM : Chief, CIA/PID

SUBJECT : Rail Study of Communist China

REFERENCES : (1) Requirement No. C-RR4-81,487
(2) CIA/PID Project No. C 1021/64

1. This memorandum is in response to the referenced requirement concerning a railroad study of Communist China on the areas covered by AMS Map Sheets NL 44 and NL 45. This study is designed primarly for the purpose of determining the extent of new rail construction since 1960.

2. The study was based on information obtained from the following missions:

25X1D [redacted]

3. All rail lines observed on the above referenced missions are plotted on the enclosed annotated overlays (CIA/PID/IB-P-1452/64 and CIA/PID/IB-P-1453/64). No new construction activity was noted. All abandoned construction is annotated on the enclosed overlays.

4. The photo analyst assigned to this requirement was [redacted] 25X1A who may be contacted on extension 2607 should there be any further questions regarding this study. This requirement is considered complete as of the date of this memorandum.

[redacted] 25X1A

Declass Review by NIMA/DOD

ENCLOSURES:
2 Overlays (CIA/PID/IB-P-1452/64 thru P-1[redacted]

Group 1
Excluded from automatic downgrading and declassification

HANDLE VIA
TALENT-KEYHOLE
CONTROL SYSTEM ONLY

TOP SECRET RUFF

15115

TOP SECRET RUFF

CH'ENG-HUA

IB 410/64

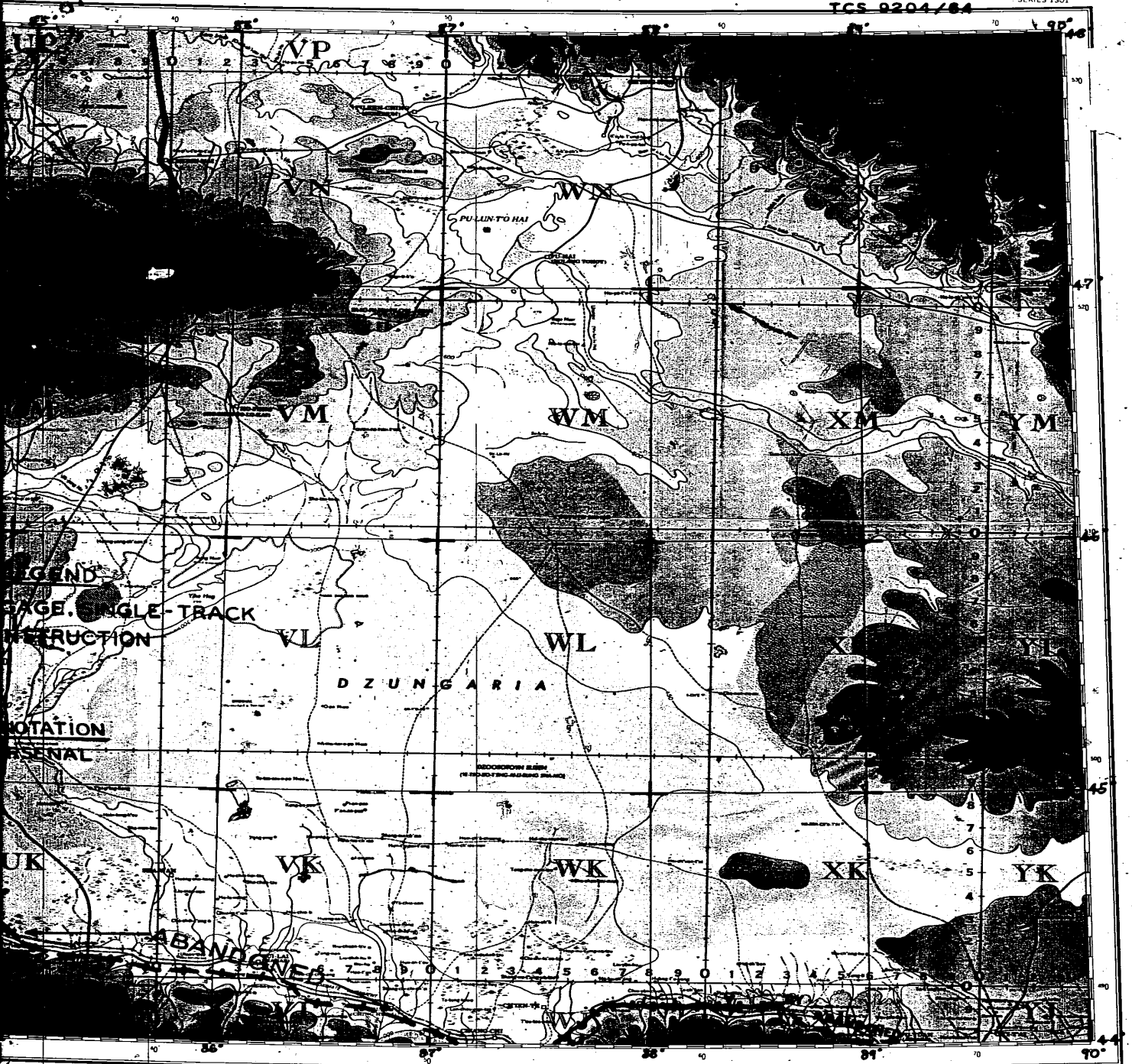
EDITION 1-AMS AMS NL 45 SERIES 1301 45

SERIES 1301

TCS 9204/64

REFER TO THIS MAP AS:

SERIES 1301
SHEET NL 45
EDITION 1-AMS



TOP SECRET RUFF

Scale 1:1,000,000

LAMBERT CONFORMAL CONIC PROJECTION

9-61 PRINTED BY ARMY MAP SERVICE, CORPS OF ENGINEERS

TOP SECRET RUFF

CH'ENG-HUA

WORLD (ASIA) 1:1,000,000

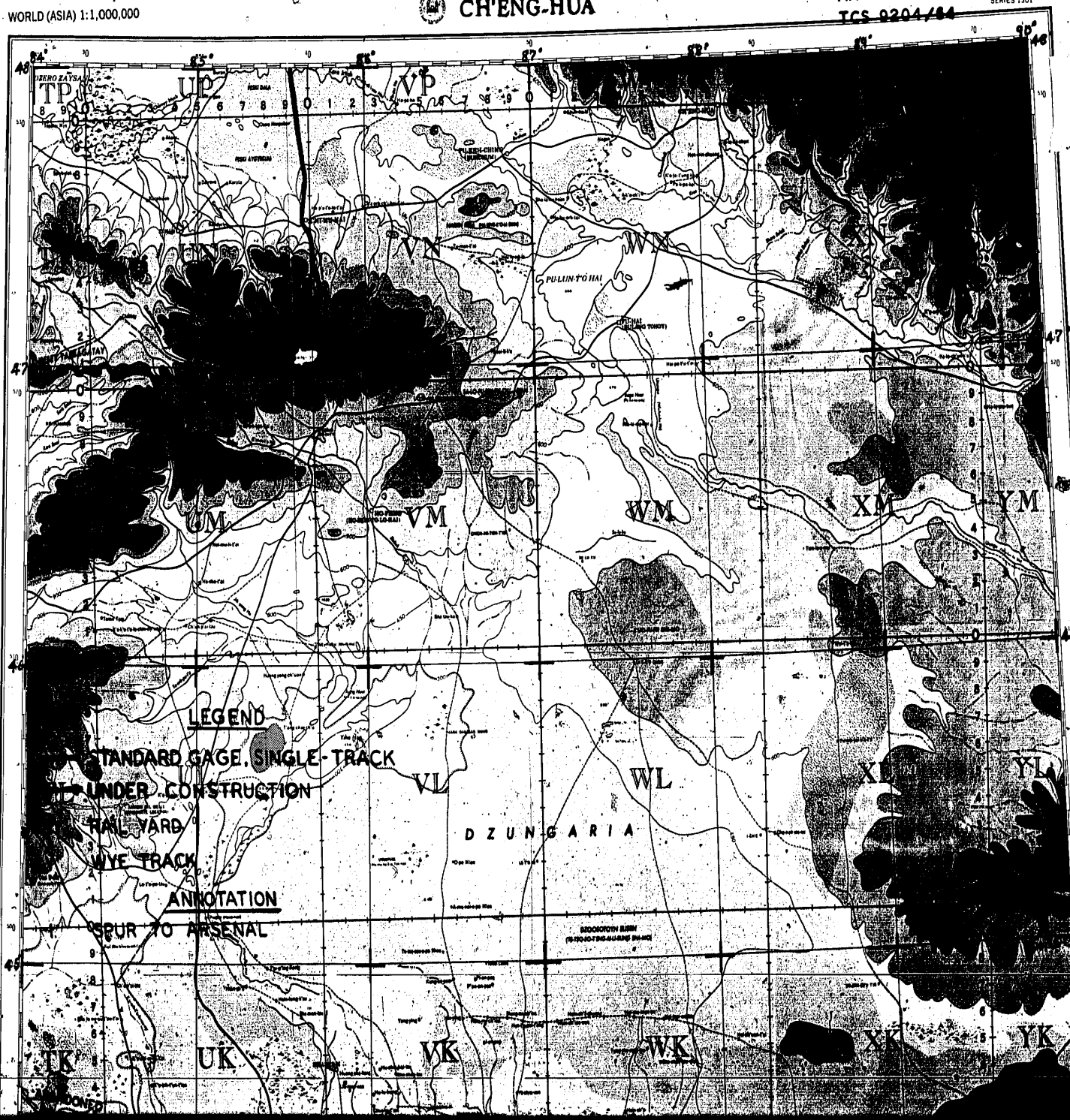
IB 410/64

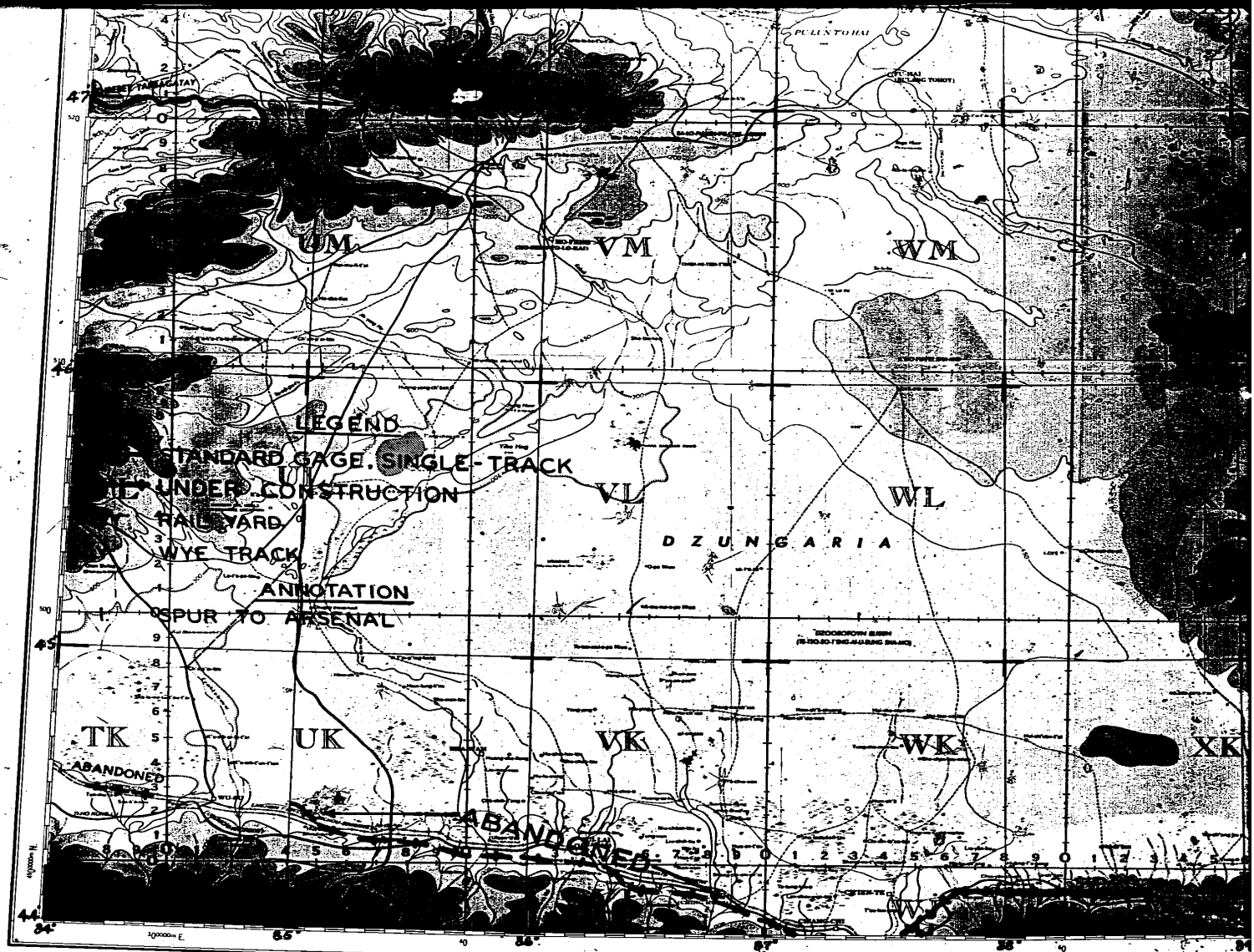
EDITION 1-AMS AMS NL 45 SERIES 1301

TGS 9204/64

REFER TO THIS MAP AS: NL 45 SERIES 1301

SERIES 1301
SHEET NL 45
EDITION 1-AMS





TOP SECRET RUFF

SERIES 1301
Edition 1-AMS (First Printing, 9-61)

Prepared by the Army Map Service (PV), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1961 from USSR, 1:2,500,000, Chief Administration of Geodesy and Cartography, Sheet 14, published 1958. Additional detail taken from: China Atlas, 1:1,000,000, Bureau of Survey, Ministry of National Defense, Sheet NL-45, 1948; Kazakhskaya SSR, 1:1,500,000, Chief Administration of Geodesy and Cartography, Sheet 2 of 4, 1958.

CIA/PID/IB-P-1453/64

Scale 1:1,000,000

10 5 0 10 20 30 40 50 60 70 80 90 100 Statute Miles
10 5 0 10 20 30 40 50 60 70 80 90 100 120 130 140 150 Kilometers
10 5 0 10 20 30 40 50 60 70 80 90 Nautical Miles

LAMBERT CONFORMAL CONIC PROJECTION

STANDARD PARALLELS 44°40' N AND 47°20' N

HEIGHTS ARE IN METERS AND ARE REFERRED TO MEAN SEA LEVEL

LEGEND

POPULATED PLACES

USSR	China
100,000 or over	Special municipalities
50,000 to 100,000	Provincial capitals
10,000 to 50,000	Hsien seats, other cities
2,000 to 10,000	Towns
Less than 2,000	Other populated places

RAILROADS

Single track — Multiple tracks
Narrow or metric gauge
Under construction — CONSTRUCTION
Abandoned — ABANDONED

BOUNDARIES

International, Marker
Major administrative
First class administrative
Second class administrative
Horizontal control point, Astronomical
Spot elevation, In feet or meters
Isolated building or feature
Lighthouse, Beacon
Triangulation, Mine
Telephone or telegraph line
Power transmission line
Railroad station

ROADS

Dual highway
Main road, Route marker
Secondary road
Other road
Trail or track, Winter road — WINTER ROAD
Contour, Approximate contour
Form line, Escarpment or cliff
Levee, Sand
Disturbed surface
Marsh or swamp
Forest or scrub
Reefs, Small, Large
Rock awash
Exposed wreck
Intermittent lake
Intermittent stream
Undetermined shore line, Undetermined stream

RELIABILITY DIAGRAM

INDEX TO ADJOINING SHEETS

INDEX TO BOUNDARIES

GLOSSARY

China	pass	BOUNDARIES
Gobi	valley	CHINA
Erlian	lake	
Gobi	mountain	POPULATED PLACES
Hua	mountains	
Ho	river	
Hsi	mountain range	RAILROADS
Kiangsi	railway	
Lo	highway	
Mao	mountain	ROADS
Nan	temples	
Nur	Lake, Inland sea	CHINA
Ozero	lake	
Pass	lakes	
Shan	mountain range	
Ta	railway	
Tien Shan	mountain range	
Yu	highway	
Yunhe	river	

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP IS NOT RECOGNIZED AS AUTHORITATIVE

SERIES 1301
SHEET NL 45
EDITION 1-AMS

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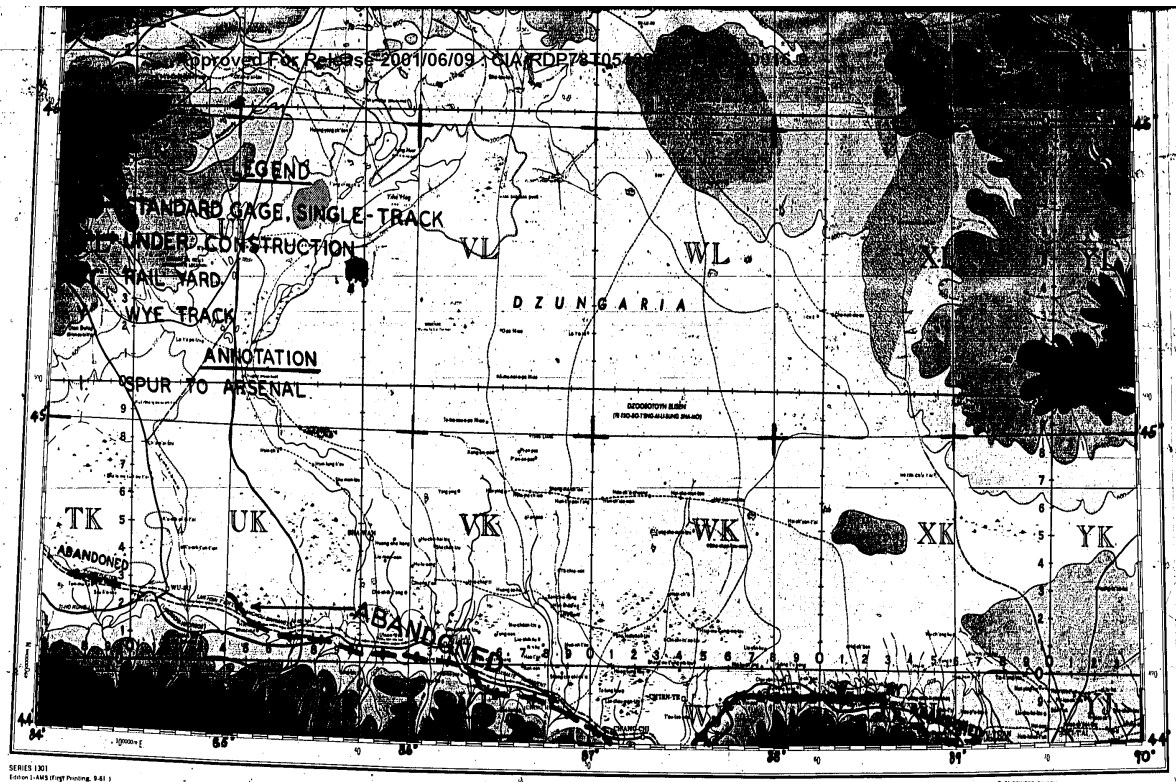


SERIES 1301
Edition 1-AMS (Ftgf Printing, 9-61)

Prepared by the Army Map Service (PI), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1961 from USSR, 1:2,500,000, Chief Administration of Geodesy and Cartography, Sheet I-K, published 1958. Additional detail taken from: China Atlas, 1:3,000,000, Bureau of Survey, Ministry of National Defense, Sheet NL-45, 1948; Kazakhskaya SSR, 1:1,500,000, Chief Administration of Geodesy and Cartography, Sheet 2 of 4, 1958.

CIA/PID/IB-P-1453/64

Scale 1:1,000,000

TOP SECRET RUFF

100 Statute Miles
90 Nautical Miles
150 Kilometers

LAMBERT CONFORMAL CONIC PROJECTION
STANDARD PARALLELS 44°40'N AND 47°20'N

HEIGHTS ARE IN METERS AND ARE REFERRED TO MEAN SEA LEVEL

LEGEND

RELIABILITY DIAGRAM

INDEX TO ADJOINING SHEETS

INDEX TO BOUNDARIES

GLOSSARY

Ching	well
Dolina	valley
Erszn	sands
Gora	mountain
Hu	lake
Hsing	mountains
Ho	river
Khrebet	range
Kung-lu	highway
Ling	mountain
Miao	temple
Nuur	marsh, lake
Qaraq	lake
Peski	sands
Shamo	sands
Shan	mountain, mountain range
Tiehlu	railway
Yen-tien	salt marsh
Za-Nuur	grazing ground

EXPLANATORY NOTES

BOUNDARIES
CHINA MONGOLIA
Boundary undefined
POPULATED PLACES
CHINA
Populated places of little importance may be of a seasonal nature
RAILROADS
Normal gauge
in China — 4 ft 8½" (1.44 m)
ROADS
CHINA MONGOLIA
Main road — generally loose surface graded, all weather
Secondary road and Other road — generally loose surface dry weather or dirt road
USSR
Secondary road — loose surface or improved dirt
Other road — dirt
Road classification should be referred to with caution

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE

USERS NOTING ERRORS OR OMISSIONS ON THIS MAP ARE ASKED TO MARK HEREON AND FORWARD DIRECTLY TO COMMANDING OFFICER, ARMY MAP SERVICE, WASHINGTON 25, D.C., WITH AS COMPLETE DETAILS AS POSSIBLE. CORRECTIONS WILL BE APPRECIATED.

GRADIENT TINTS

SERIES 1301
SHEET NL 45
EDITION 1-AMS

Approved For Release 2001/06/09 : CIA-RDP78T05439A000400230016-9

CH'ENG-HUA, CHINA; MONGOLIA; U.S.S.R.

TOP SECRET RUFF

PANFILOV

AMS NL 44 SERIES 1301

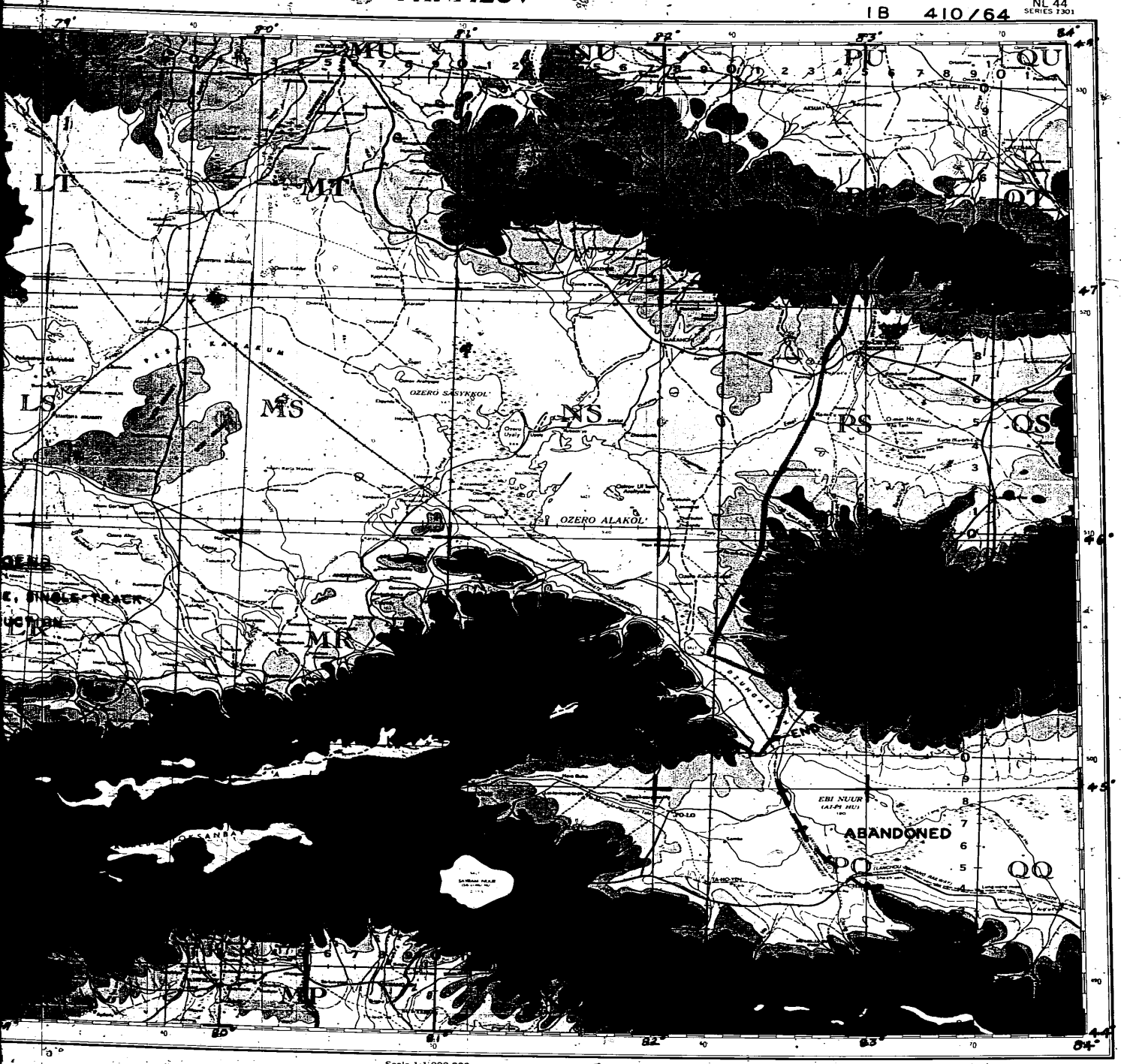
TCS 9204/64

IB 410/64

EDITION 2-AMS

REFER TO THIS MAP AS: NL 44 SERIES 1301

SERIES 1301 SHEET NL 44 EDITION 2-AMS



Scale 1:1,000,000

100 Statute Miles
150 Kilometers
90 Nautical Miles

B 62 PRINTED BY ARMY MAP SERVICE, CORPS OF ENGINEERS

TOP SECRET RUFF

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TOP SECRET RUFF

PANFILOV

EDITION 2-AMS

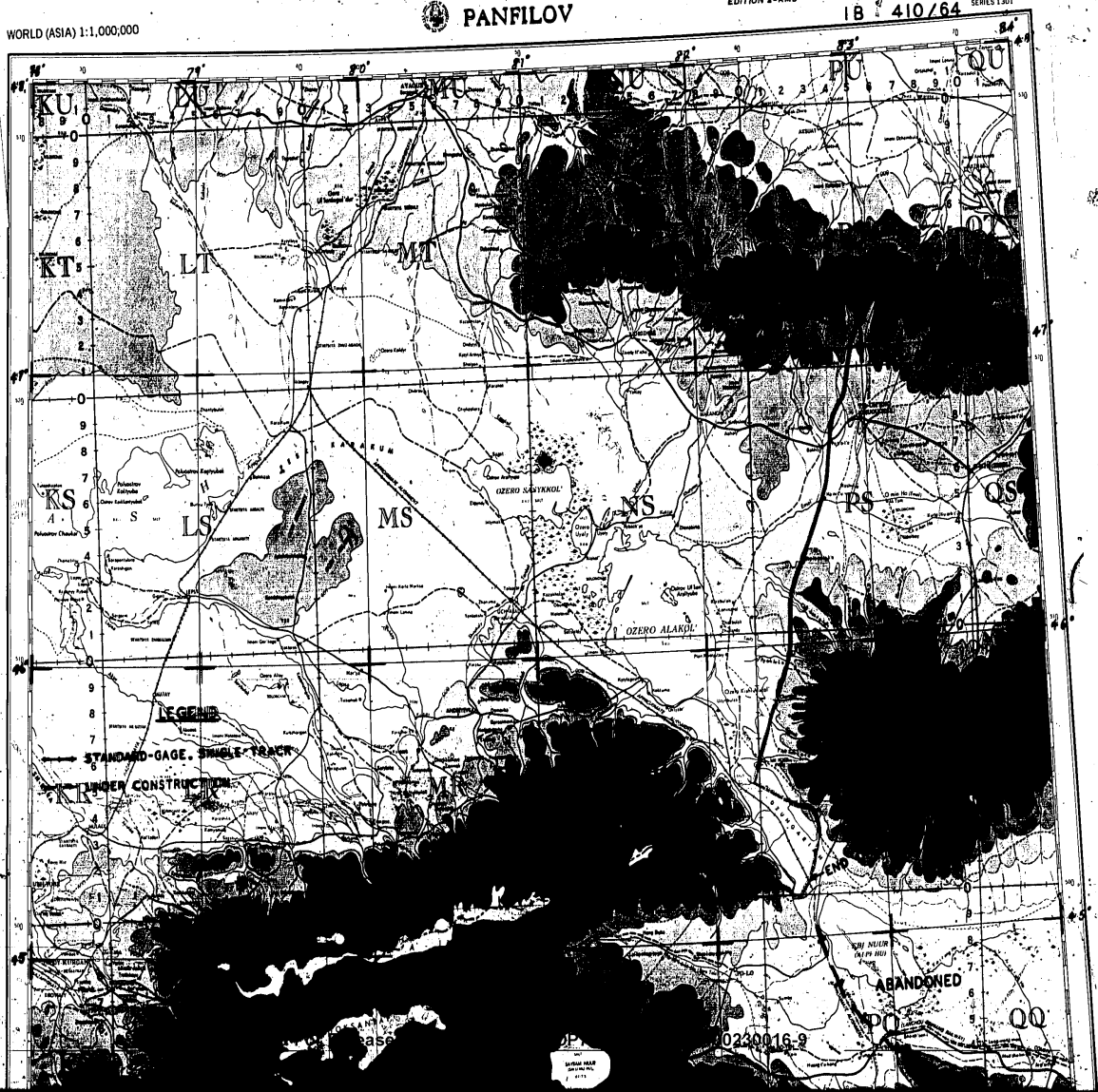
AMS NL 44 SERIES 1301

TCS 9204/64

IB 410/64

REFER TO THIS MAP AS: NL 44 - SERIES 1301

WORLD (ASIA) 1:1,000,000



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1301
Edition 2-AMS (First Printing, 8-62)

Prepared by the Army Map Service (ILI), Corps of Engineers, U.S. Army, Washington, D.C. [illegible] Kazakhskaya S.S.R., 1:1,000,000, Chief Administration of Geodesy and Cartography, edition 1955; Pamir-Tien Shan, 1:1,500,000, Chief Administration of Geodesy and Cartography, printed 1952; Altay-Sayan, 1:1,500,000, Chief Administration of Geodesy and Cartography, compiled 1954

CIA/PID/18 P-1452/64

TOP SECRET RUFF

Scale

LAMBERT CONFORMAL CONIC PROJECTION
STANDARD PARALLELS AND NAMING ORIGIN

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE

HEIGHTS ARE IN METERS AND ARE REFERRED TO MEAN SEA LEVEL

LEGEND

POPULATED PLACES
U.S.S.R.
100,000 or over
50,000 to 100,000
10,000 to 50,000
2,000 to 10,000
Less than 2,000
CHINA
Capital, special municipality
Provincial capital, municipality
Minor seats, other prefs.
Towns
Other populated places
ALMA-ATA
BALKHASH
PANFILOV
MATAY

RAILROADS
Normal or broad gauge, Standard, Multigauge
Narrow or meter gauge
Under construction
Abandoned

BOUNDARIES
International, Marker
Major administrative
First class administrative
Second class administrative
Horizontal control point, Astronomic point
Spot elevation in feet or meters
Navigation buoy or beacon
Located object, Ruins
Lighthouse, Mine
Telephone or telegraph line
Power transmission line
Salt evaporation

ROADS
Superhighway
Major road, Route marker
Secondary road
Other road
Track or trail
Bridge
Ford or Causeway
Ferry, Canal
Land subsidence
Marsh or swamp
Escarpment
Reefs, Shoals, Lakes
Rock awash
Rock (pl. rk.)
Sand, Shifting S.
Volcano

ABLE DIAGRAM

INDEX TO ADJOINING SHEETS

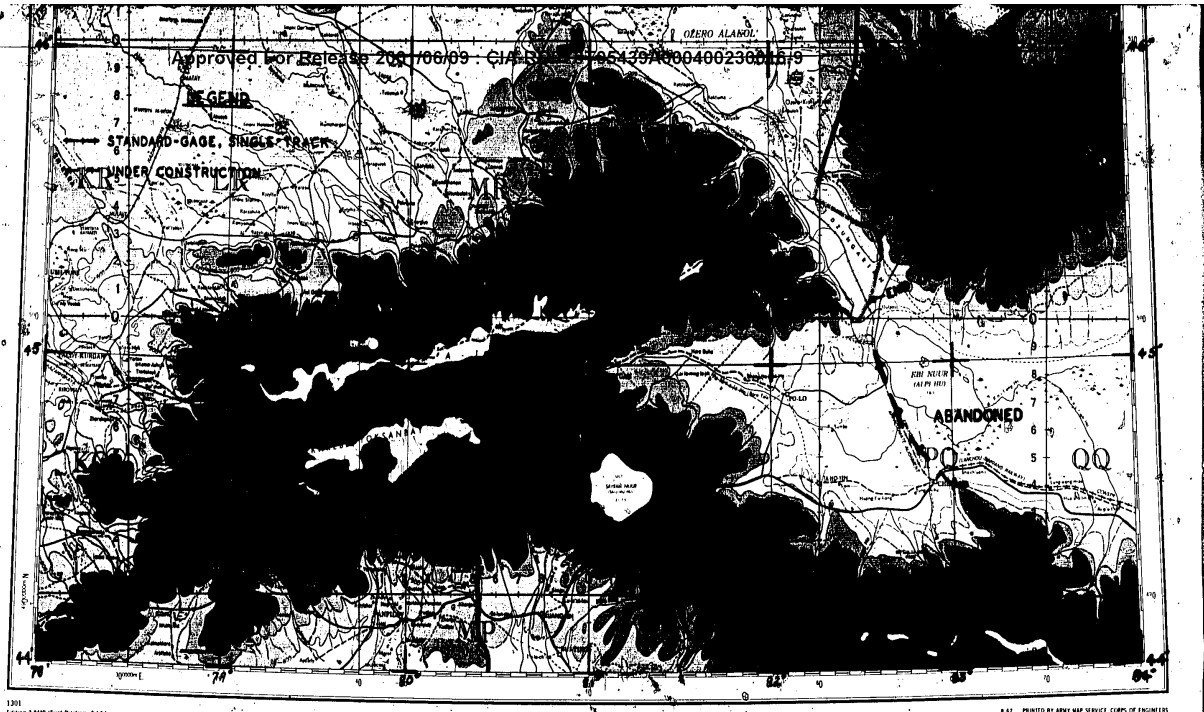
INDEX TO BOUNDARIES

GLOSSARY

EXPLANATORY NOTES

SERIES 1301
SHEET NL 44
EDITION 2-AMS

Approved For Release 2001/06/09 : CIA-RDP78T05439A000400230016-9



1301
Edition 2 AMS (Fast Printing, 8 62)

Prepared by the Army Map Service, U.S. Corps of Engineers, U.S. Army, Washington, D.C., from Aeronautical Chart and Information Center, U.S. Air Force, Kazakhskaya S.S.R., topography, edition 1955; Pamirskaya Shan, 1:1,500,000, Chief Administration of Geodesy and Cartography, printed 1952; Altay Sayan, 1:1,500,000, Chief Administration of Geodesy and Cartography, compiled 1954.

CIA/PID/18 Pr 452/64

TOP SECRET RUFF

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SERIES 1301
SHEET NL 44
EDITION 2-AMS